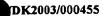
CLAIMS

- 1. A method for fermenting a microorganism, producing a polypeptide of interest, in a culture medium of at least 50 litres, comprising:
- 5 adding one or more compounds selected from the group consisting of 1,2-propandiol, 1,3-propandiol, ethylene glycol, trehalose, xylitol, arabitol, dulcitol, mannitol, erythritol, cellobiose, sorbitol and a polyether having an average molecular weight less than 1000, to the culture medium before and/or during fermentation, wherein the compound is low metabolizable measured by (OD_{II}-OD_{II})/(OD_I-OD_{II}) < 25% as defined herein.

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- 2. The method according to claim 1, wherein the microorganism is a bacterium or a fungus.
- 3. The method according to claim 2, wherein the bacterium is a Bacillus strain.
- 15 4. The method according to claim 1, wherein the polypeptide is a protein or a peptide.
 - 5. The method according to claim 1, wherein the polypeptide is an enzyme, in particular a hydrolase (class EC 3 according to Enzyme Nomenclature).
- 20 6. The method according to claim 4, wherein the peptide contains from 2 to 100 amino acids.
 - 7. The method according to claim 1, wherein the compound is added in an amount of least 0.1 % (w/w) of the culture medium.
- 25 8. The method according to claim 1, wherein the compound is 1,2-propandiol.
 - 9. The method according to claim 1, wherein in addition to the compound a salt is added to the fermentation medium.
- 30 10. The method according to claim 9, wherein the salt is selected from the group consisting of a chloride, a sulphate, a phosphate, a nitrate, and an ammonium salt.
 - 11. The method according to claim 1, wherein the polypeptide of interest is recovered.
- 35 12. The method according to claim 1, wherein the polypeptide is recovered after removal of



the microorganism.

- 13. A method for fermenting a microorganism, producing a polypeptide of interest, in a culture medium of at least 50 litres, comprising:
- 5 adding one or more compounds selected from the group consisting of 1,2-propandiol, 1,3-propandiol, ethylene glycol, trehalose, xylitol, arabitol, dulcitol, erythritol, cellobiose, and a polyether having an average molecular weight less than 1000.